

**OB7.1 Release Content (SVR 7/26/06)**  
**3/30/2006**

- **Infrastructure**
  - **Operating System and COTS Upgrades**
    - D2D, ADAPT, OHF, GFE, MHS, LAPS, NMAP, NWRWAVES, RFC software
  - **Decommission DS**
    - Move all applications (e.g., NWR, Radar, LDAD capability, Crons, HmMonitor, Data Monitor, Ingest, Cluster Packages, Services, GFE, AVNFPS).
  - **Utilize DX3/DX4**
  - **Time Zone Changes**
    - Name change for Guam - Deployed prior to OB7.1 as emergency release
    - Indiana - Deployed prior to OB7.1 as emergency release
    - DST Start/End time changes
  - **Key West Identifier Change** -Deployed prior to OB7.1 as an emergency release
  - **New Chat Server Client (DR 16790)**
  - **IFPS Enhancements**
    - PostgreSQL conversion
    - Remove Obsolete code
  - **Additional Frame (64) Capability**
  - **Display Subset of GFE parameters in D2D**
  - **Installation with Red Hat Package Manager**
- **GFE**
  - **Data Items**
    - Add the capability to use NCDC climatological data in GFE for display, smart tools, and formatters
    - OPC and TAFB Offshore Gridded Significant Wave Height Forecasts in GFE
    - Add the capability to use Gridded MOS data in GFE for display, smart tools, and formatters
    - Model name change from ETA to NAM
  - **Regional Change requests**
    - SRF Formatter
    - CWF/Infra: provide option to label 24-hr periods with day of week (tk4468)
  - **Directive Changes (NWS 10-503)**
    - Changes in GFE Practice Mode
    - Temperature Phrasing changes (10-503)
    - Cloud Category Changes (10-503)
    - No upper PoP thresholds for ZFP (10-503)
    - Steady Temperature Phrases (10-503)
    - Sky/Wx/Pop phrasing (10-503)
    - Product Expiration Times (all)
    - SFT addition of nighttime PoPs

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- This DCS also includes derived requirements and required formatter infrastructure changes to support the above development and compliance with directives. These generally are small development items. These include:
  - Limiting increasing/decreasing wording in Scalar Phrases (tk4112)
  - Removing issuanceType option in AFD (tk4461)
  - SampleAnalysis: option for getExistingWeightedAggregateCov, getHighestWeightedAggregateCov and noWx\_Percentage thresholds (tk4539,4551,4555)
  - AFD update section before Discussion section (tk4544)
  - includeCities, includeZoneName, cityDescriptor additions to GenericReport (tk4576)
  - cmd line variables to override Definition entries (tk4577)
  - getPopType refinements in ScalarPhrases (tk4589)
  - Allowed Hazards changes for tropical (tk4630)
  - ZFP/SAF ordering of wind summary and report Trends (tk4633)
  - More complete error recovery from infinite loop (tk4640)
  - Sky/Pop/Wx and local effects (tk4552)
  - VTEC default mode of "O", except for "X" on MWS
  - TCV/CWF VTEC UPG headlines
  - FFA list of counties/areas and wording improvements
- **Improvements to Automated testing - Changes to support improved automated support improved testing. This includes:**
  - Changing server protocol to accommodate special transactions such as zeroing the VTEC active table and allowing modification of server read-only files. (These would be restricted to the GFETEST user.)
  - Adding -a switch to configureTextProducts and ifpServer command line to use alternate afos2awips.txt file for purposes of testing text formatters.
  - Allow automated routines to modify read-only files in order to fully test some aspects of formatter configuration (restricted to automated tests and GFETEST user).
  - logstream.py logging limited when compared to LogStream for file naming (tk4599)
  - changes to scripts to generate release notes, particularly the automated creation of a test matrix document
  - ifpServer behavior for GFETEST user, to skip the standard BASE, SITE, User sequence and only look at BASE, User. This would eliminate the need to remove site-level configuration overrides which can cause confusion on the tester's part when the expected results do not occur with the automated tests.

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- **Infrastructure Improvements - Small enhancements for GUI and other infrastructure operations. Improvements includes these type of tasks:**
  - Spell checker enhancement (tk4473)
  - Product Editor generation of segment times in error (tk4538)
  - WindChill/Heat Index tools conform to limits (tk4598)
  - MakeHazard procedure - add descriptors (tk4600)
  - MakeHazard procedure - LB.Y needs to be added (tk4601)
  - MergeHazards procedure - should be writable (tk4608)
  - Ice Desk Configuration for AFC in serverConfig (tk4624)
  - SiteInfo for IWX needs updating (tk4626)
  - Diagnostics for bad wx key or discrete key, show original string (tk4627)
  - configureTextProducts for RFCs should ignore unknown WFO info (tk4614)
  - iscMosaic - add configurable delay for grids for MDL svc backup (tk4652)
- **Model**
  - **Gridded MOS (CONUS)-5km grid, issued 2x daily**
- **Radar**
  - Snowfall Accumulation Product
  - Plan View Display of VWP
  - Mesocyclone Detection Algorithm
  - DVL low value/linear scale change
  - RDA/SZ-2 Range Unfolding VCPs
  - All Tilts Navigation improvements
- **Aviation Forecast Preparation System (AVNFPS) Version 3.2**
  - Conditional Climatology Overhaul
  - Creation of Guidance TAF
  - Enhance AvnFPS to monitor TAF flight categories
  - Monitor ceiling and visibility grids
  - Overhaul TWEB QC routines
- **Satellite**
  - **Polar Visible and IR Imagery**
- **Hydrology**
  - **WHFS HydroView Enhancement to Replace “Mapper” (partial)**
  - **Integration of RFC QPE tools into a common National System (partial)**

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- **RSA Modifications**
  - **Tabular text application**
  - **Time Series changes to ordinate (y-axis) labeling**
  - **Volume Browser**
    - accommodation for feet and ft AGL in VB height scales
    - on-the-fly analysis of mesonet data in VB
    - radar data avbl in VB for cross sections, etc.
    - range rings extension
- **Software maintenance**
  - **Critical and high priority major DRs (25)**